BLAISDELI

Vacuum Cleaning Systems, Automatic Sewage Ejectors and Air Compressors

Are specified by the Architects whose works are shown in this supplement, and installed under the direction of the Thompson-Starrett Co.

Each equipment represents the best in its respective line and has been chosen after thorough investigation of its merits and adaptability for the conditions of service to be met with.

Hardly a building of any magnitude is to-day planned without provision being made for a Vacuum Cleaner System. It is not a question as to the desirability and value of such an apparatus this point has been settled. To-day it is a question of the TYPE of apparatus to be used.

BLAISDELL cleaners have been installed in some of the largest and finest buildings throughout the U.S. and are recognized by the leading architects, engineers and builders as the most satisfactory type of apparatus.

It is needless to relate that a great deal of time and exhaustive study has been made since the advent of the first machines used for cleaning and the difficulties met with in finally designing an apparatus which is as nearly perfect as correct design, good material and the best of workmanship could make it. The final outcome, a vacuum producer obsolutely noiseless in operation. Automatic lubrication of all bearing surfaces. The use of patented oscillating valves, materially increasing the efficiency. The elimination of water jacket (tending to decrease operating expenses) and the consequent decrease in Power consumption.

A Perfect System of Separation

whereby all dust and dirt is removed from the air and discharged direct to the sewer. This action is accomplished automatically. A separate tank is used so there will be no danger of any dust or dirt reaching the pump. This system is indispensable and especially so in hospitals where handling of the matter deposited in dust tank is a serious menace to health and life.

BLAISDELL cleaners are built in many sizes from the one horse-power machine for residences to the high powered machine required for the largest

Blaisdell Automatic Sewage Ejectors For use for elevating sewage or drainage and liquids of every description. The machines are operated automatically by compressed air, generated at a central power station or by individual plants. Practically no attention is required and repairs are a negligible item. By exhaustive tests in actual service proven to be the most economical, the most durable, and by far the most reliable method in use. The large number of installations made attest to their popularity with architects and engineers.

Their adaptability is not confined to building installations, but they are used with marked success in connection with Sewage Disposal Works where it is necessary to raise the sewage to a higher level.

Blaisdell Air Compressors

are manufactured in a large number of types and in many sizes, suitable for the many conditions of service met with. The machines are compact, sturdy, with strong, graceful lines. There are many features, original with these machines, which assure highest efficiency, lowest power consumption and lowest maintenance costs. BLAISDELL products are not sold on price but QUALITY.

Installations

A few prominent installations of BLAISDELL

Waldorf-Astoria Hotel, New York, N. Y.
Eighty Maiden Lane Bldg., New York, N. Y.
New Custom House, New York, N. Y.
Woodstock Hotel, New York, N. Y.
Sesrun Club, New York, N. Y.
New York Postoffice. Essex County Bank Bldg., Newark, N. J. Bellevue-Stratford Hotel, Philadelphia. Wesley Hospital, Chicago. Chicago City Hall, Chicago. Cleveland Post Office, Cleveland, Ohio. Congressional Library, Washington, D. C. National Museum, Washington, D. C. Congressional Library, Washington, D. C.
National Museum, Washington, D. C.
Dept. of Agriculture, Washington, D. C.
First National Bank Bldg., Roanoke, Va.
Hamilton National Bank, Chattanooga, Tenn.
Markle Banking & Trust Co., Hazleton, Pa.
Hayden Bldg., Columbus, Ohio.
Kansas City Post Office, Kansas City, Mo.
New Orleans Post Office, New Orleans, La.
Shelby County Court House, Memphis, Tenn.
Yellowstone Park Hotel, Yellowstone Park, Wyo.
Lenox Hotel, Boston, Mass.
Brookline Public Library, Brookline, Mass.
Brookline Public Library, Brookline, Mass.
Michigan Central R. R., Detroit, Mich.
South Side High School, Youngstown, Ohio.
U. S. Naval Hospital, Chelsea, Mass.
U. S. Naval Hospital, Portsmouth, N. H.
U. S. Naval Hospital, Newport, R. I.
Boston Elevated R. R., Charlestown, Mass.
Old Colony Street Ry. Co., Campello, Mass.
Classical High School, Lynn, Mass.

THE BLAISDELL MACHINERY COMPANY Main Office BRADFORD, PA.

202 Congress St. 539 Real Estate Trust Bldg., Boston, Mass. Philadelphia. at. Bank. 907 Peoples National Bank Bldg., 90 West St. Commercial Nat. Bank, Chicago, Ill. Pittsburg, Pa. 309 Boston Block, Spokane. Portland, Ore. Seattle, Wash. Indianapolis. Kansas City, Mo. Los Angeles. Agencies in Principal Cities.

H. J. KALTENTHALER PHILADELPHIA, PA.

Special Castings Flanged Fittings Gray Iron, Bronze and Cast Steel STEEL CASTINGS OF ALL DESCRIPTIONS MADE IN THE FOLLOWING 60,000 to 68,000 Tensile Strength with Elongation of 25% in 2-in 70,000 " 80,000 " 18% " 2-in 0 15% " 15% " 2-in 15% " 2-

J. W. KELLAM, Representing, 120 Liberty Street

BUILT FOR BEAUTY AND USE. FIRE POWERLESS Will Be Ready April, 1912.

Building records have been broken in the construction of 80 Maiden lane, the next great office building to be a twenty-four story structure, and though the foundations were excavated only last April it is now so near coming April those who have already taken leases for suites will be able to BUILDERS' DREAM REALIZED building, often productive of many delays, was completed on schedule time and the task of raising the structural was put through with unusual quickness. While the finishing touches were being given to this end of the con-struction, the stone-masons, the brick-

Fireproof Hotels Are Possible.

Charles D. Wetmore, New Building's Architect, Tells How Result Was Accomplished.

So many so-called "fireproof" buildings have burned since the word was invented a few days ago a fierce blaze of new fur- to the niture, burlap and excelsior was kept confined to the corridor on which it started, are day practically complete except for a and that practically no other damage was little finishing work on the interior. by the Fire Companies Building Corporation at a cost of approximately surprise to the ordinary layman. When the inflammable material referred to caught fire and the flames at tacked the floor construction, the flames at tacked the floor construction. ration at a cost of approximately surprise to the ordinary laying. The recent tacked \$2,000,000 exclusive of the price of the a few nights later two hotels, one in Boston tacked

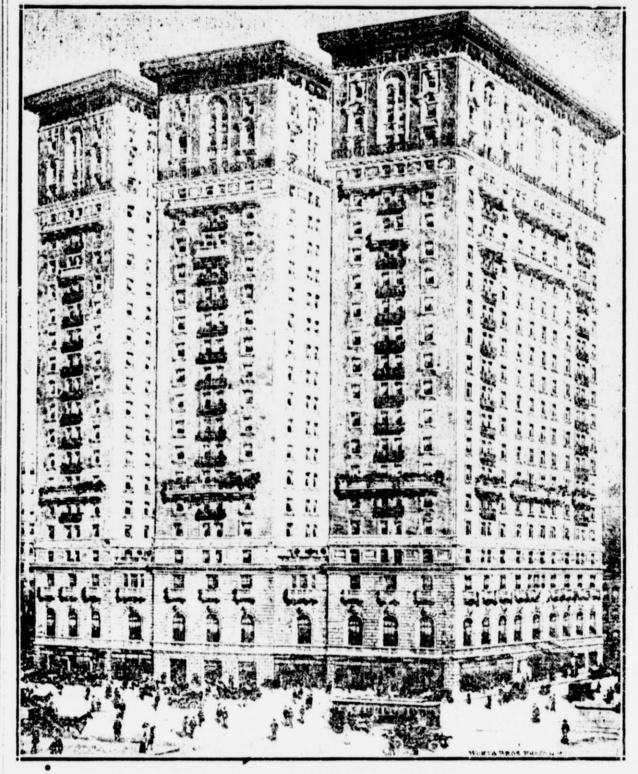
EQUITABLE FIRE'S CESSON

Already Learned by Building Men-How Old and New Compare.

Louis Jay Horowitz, in speaking the other day of the Equitable Cre, said that a similar fire starting in a mod-Vanderbilt Proves in Test That ern fireproof building would have a different outcome

"The Equitable Life Building," he said. "was built before the most im portant protective features now employed for threproof buildings were

vator shaft, instead of being confined permitted the flames to get out of the and other inflammable material stored on the floors.



THE MCALPIN HOTEL, 33 AND 34TH STREETS AND BROADWAY. ONE OF THE MOST MODERN AND LARGES HOTELS IN THE WORLD.

The carry of the modern butdoms, control of Wall street and within hid a block but and within hid a block but and within hid a block but and when asset how a hord could be built but but across the way from the Eighty Modern have was described by the Bernard of the Bernard was a clience of the Company of the modern butdings. The Bernard was a clience of the cuttand and the bernard was a clience of the cuttand was a clie

land upon which it stands. Its immense proportions—it has a frontage of 143 feet on Maiden lane and of 173 feet on Cedar street—rank it as one of the great downtown office buildings in a could be made fireproof.

It takes in numbers 76 to 88 on Maiden lane and extending the plane and the other in San Francisco, caught the plane and of the plane an of the great downtown office buildings. It takes in numbers 75 to 85 on Maiden lane and, extending through the block occupies numbers 13 to 75 on Cedar street. Its position in the middle of the block between William and Pearl streets is farther east than has been chosen for many office structures of its size. But it is within the financial zone, being only two blocks north of Wall street and within helf a block of the Mutual Life Insurance limiting. The Downtown Association has its back door just across the way from the complish the finance of actions Mr. Wetmore dictated when asked how a hotel could be built absolutely firegroof:

"A hotel should not only be firegroof and doors installed in that building. The powntown Association has its back door just across the way from the subding's Cedar street entrance. Eighty Maiden lane was designed by D. H. Burnham & Co., a Chicago firm of architects, and is behaved to be as attractive architecturally as is practical in the making of a large office building. Heavy pilasters extend from the street and to the fifth floor, their

"The Largest Contract for Plumbing Ever Awarded"

The McAlpin Hotel

Broadway, 33rd and 34th Sts.

The architects in "The McAlpin Hotel," the largest hotel in the world, necessarily gave special thought for the convenience and health of its patrons. Sanitary plumbing, during the past decade, has been revolutionized, and today has reached the acme of perfection. The enormity of the proposition required the greatest study for not only the economy of space in installing the mechanical plant, but also for the most practical arrangement of the numerous lines of leaders, soil lines, supplies, etc., etc. All this requires more than the ordinary intelligence displayed by the Master Plumber of today. In making a selection of the proper and capable man to under-take this "behemoth" of Plumbing Contracts, in-tegrity as well as practical knowledge and experience were the requirements necessary in the man selected to assume this contract. F. M. Andrews & Co., the architects, and The Thompson-Starrett Co. the general contractors, had no hesitancy in selecting Mr. Charles H. Darmstadt, Master Plumber, of 352 W. 43d St. as the "man." His experience and well known standing in the trade stamped him as being especially qualified to carry to a successful completion this important contract, embracing as it does the complete installation of 1058 water closets, 1680 lavatories, 960 bath tubs, 71 slop sinks, 20 shower baths, more than 100 sinks of various types, and a complete Turkish Bath equipment on the 25th floor with hydratic control. Steam Rooms, Needle Baths, Electric Cabinet, Swimming Pool, etc. More than 300 Tons of Genuine Galvanized Wrought Iron Pipe and fittings, and 145,000 pounds of Brass pipe and fittings are required for the installation of the numerous lines of leader, soil and waste lines. vents, hot and cold supplies, etc. All water used on the premises will be filtered through an immense filtering plant, producing more than 10,000 gallons per hour; three (3) House Pumps of a capacity of 400 gallons per minute deliver water to the six (6) House Tanks on a relay system situated on the 13th and 25th floors. The arrangements for fire protection are of the most recent and up to date methods, and approved by the Fire Department. The Underwriters' Fire Pump, having a capacity of more than 800 gallons per minute, delivers through four 6 inch stand pipes extending from Siamese Steamer Connections on each street to a special tank on the 25th floor with outlets on each floor equipped with 100 feet of Hose, etc.; a pressure equal to the entire height of the building is maintained at all times, ready for any emergency; as usual in the "skyscraper" type of building, extending up into the air a certain proportion of the building extends below the surface of the street and below the sewer level. In order to dispose of the immense amount of sewerage necessary to be taken care of a compressed air Ejector plant is to be installed, capable of discharging 500 gallons per minute direct to the street sewer with an emergency Electric Pump of 1,000 gallons per minute capacity. It can be readily seen that to successfully install and complete this enormous undertaking in contract time requires serious thought and executive ability. Mr. Darmstadt has made special preparation for handling the mechanical part of the work and has entirely remodelled his shop, installing new machinery of the latest types, and is prepared to handle with expediency, Plumbing work of any character he may be called upon to perform on this or any other contract. Mr. Darmstadt has been successful in securing and completing many of the large Plumbing Contracts awarded in recent years, among them being the "Fifth Avenue Building," on the site of the old Fifth Avenue Hotel; The "Bourne" Building in connection with the Singer Tower, The "Hilliard" Building, Dutch and John Sts., and many others. An invitation is extended to architects, contractors and any others interested in the Building business to visit the offices and shop of Mr. Darmstadt, and by ocular demonstration satisfy themselves of the completeness of his organization and up to date methods for installing "Sanitary Plumbing" of today.

HOWARD & MORSE Ventilating Engineers and Contractors

WIRE CLOTH, WIRE RAILINGS AND ARTISTIC METAL WORK, MILL, MINE, FOUNDRY, WATER WORKS, ETC., SUPPLIES IN WIRE, 1102 BLACKMAN VENTHATOR AND DUPLEX CONE FAN. CLMENT TESTING APPARATES. WOOLWORTH BUILDING Hotel Astor, Belmont, Cadillac, Clifton, bocker, Netherlands, Plaza, St. Beals, St. Regis and Waldorf-Astoria are a few of the big buildings Perfect System of Ventilation NEW YORK CITY **45 FULTON STREET**